

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



557998

(43) International Publication Date  
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number  
**WO 2004/108176 A1**

(51) International Patent Classification<sup>7</sup>: **A61L 15/38**

(21) International Application Number:

PCT/GB2004/002374

(22) International Filing Date: 4 June 2004 (04.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0313217.2 9 June 2003 (09.06.2003) GB

(71) Applicant (*for all designated States except US*): INSENSE LIMITED [GB/GB]; Colworth Science Park, Sharnbrook, Bedford MK44 1LQ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): DAVIS, Paul, James [GB/GB]; The Hawthorns, Pavement Road, Felmersham, Bedford MK43 7EX (GB). AUSTIN, Andrew, John [GB/GB]; 85 Gipsy Lane, Irchester, Northants NN29 7DJ (GB).

(74) Agent: KEITH W NASH & CO; 90-92 Regent Street, Cambridge CB2 1DP (GB).

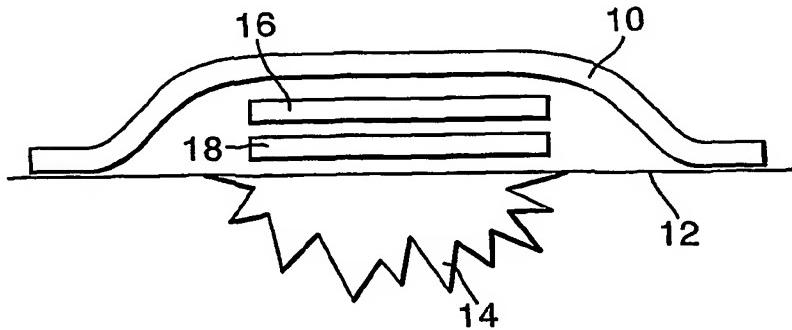
(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:  
— *of inventorship (Rule 4.17(iv)) for US only*

[Continued on next page]

(54) Title: SKIN DRESSINGS CONTAINING OXIDOREDUCTASE ENZYME



A1

WO 2004/108176

(57) Abstract: A skin dressing comprises a first dressing component (16) carrying oxidoreductase enzyme in dried condition; and a second dressing component (18) carrying a source of water, such that when the first and second dressing components are placed in fluid communication with each other, water migrates from the second component towards the first component and acts to hydrate enzyme carried by the first component, at least at the surface of the first component. The dressing components are kept separate before use, e.g. being sealed in separate sterile, water-impervious packages such as laminated aluminium foil pouches. In use of the dressing, the second dressing component is located on the skin of a human or animal, e.g. over a wound to be treated or on a region of skin to be treated for cosmetic or therapeutic purposes such as for treatment of acne or other skin conditions. The first dressing component is placed on top of the second component in fluid communication therewith. In embodiments comprising only first and second dressing components, the first dressing component is placed in direct contact with the second dressing component. Water from the second component migrates towards the first component and acts to hydrate enzyme carried by the first component, at least at points of contact at the interface between the first and second components. Once hydrated, the oxidoreductase enzyme can immediately begin functioning in known manner with beneficial effects.



**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*